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PHOTOGRAPHIC INTERPRETATION REPORT



SAVAGE, SCRAG, AND SCAMP MISSILES, MOSCOW PARADE, 9 MAY 1965

NPIC/R-292/65
SEPTEMBER 1965

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PHOTOGRAPHIC INTERPRETATION REPORT

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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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This report has been prepared in response to CIA requirement C-SI5-82,589, which requests mensuration and line drawings of the 2 new Soviet ICBMs and the new, self-propelled surface-to-surface missile (SSM) photographed in the Moscow parade of 9 May 1965. Two of each of the 3 missiles were displayed in the parade. The missiles have been designated SAVAGE, SCRAG, and SCAMP, respectively.

The mensural data contained in this report were obtained from analytical and graphical photographic solutions coupled with scaling and ratio techniques. Because of the geometrical problems involved in mensural analysis of oblique ground photography, some degree of error is inherent in resulting measurements. All dimensions are carried to the one-hundredth part of a foot, but the reader is cautioned that the degree of accuracy is not that reliable. A general guide for determining the degree of confidence that can be placed in the dimensions given for the 3 missiles is as follows:

Missile	Degree of Accuracy
SAVAGE	
SCRAG	
SCAMP	

The reader is further cautioned that the drawings on which the mensural data appear are not intended to be used for detailed engineering analysis.

The SAVAGE (Figures 1-3) is a 3-stage, probably solid-fuel, ICBM. Its overall length is [REDACTED]. The diameter of the first stage is [REDACTED], the second stage is [REDACTED] feet in diameter, and the third stage is [REDACTED] feet in diameter. The reentry vehicle is [REDACTED] feet long and [REDACTED] feet in diameter. The SCRAG

(Figures 4-6) is a 3-stage, liquid-propelled, ICBM. Its overall length is [REDACTED]. The diameter of the first and second stages is [REDACTED] and the third stage is [REDACTED] in diameter. The reentry vehicle, which projects slightly from a tapered guidance section, is [REDACTED] feet long and [REDACTED] feet in diameter at the base. The interstage connection on both the SAVAGE and the SCRAG is an open-lattice-type structure. It is possible, therefore, to observe interstage detail and engine nozzles. The SCAMP (Figures 7-9) is a self-propelled SSM. The actual missile is inside a closed pod or canister which is hinged along its long axis. This canister is [REDACTED] feet long and appears oval in cross section. The tracked carrier is [REDACTED] feet long and the length of the entire assembly, including the flame deflector, is [REDACTED] feet.

The same-model diesel-powered prime mover was used to pull both ICBMs. It is similar to the prime mover that was used to tow GALOSH and SASIN missiles previously displayed. The prime mover has steerable tandem axles under the cab and fixed tandem axles at the rear and measures [REDACTED] overall. The transporter used for the SAVAGE has tandem axles toward the rear and a single axle in front. All the wheels are single rather than dual. The missile is cradled on the trailer and secured at the after end and at the break between the second and third stages. The third stage is not supported. The SCRAG missile is cradled on a transporter that has a single axle at each end with dual wheels. Neither transporter appears capable of erecting the missile.

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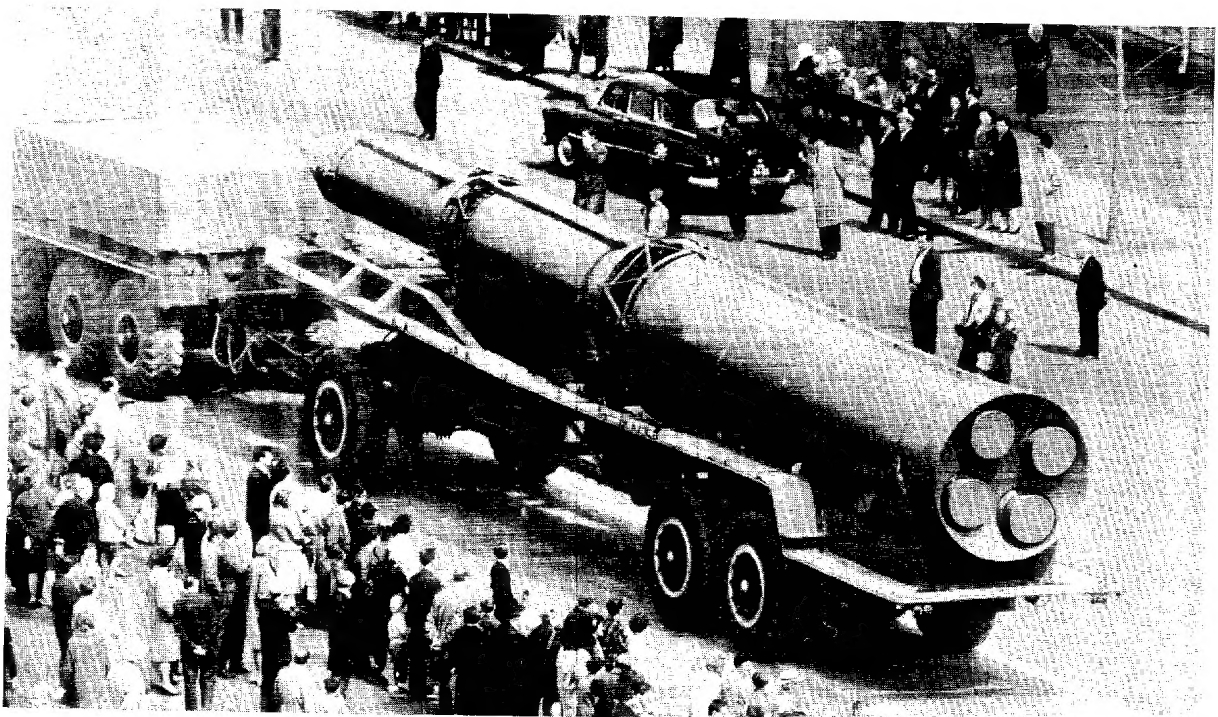


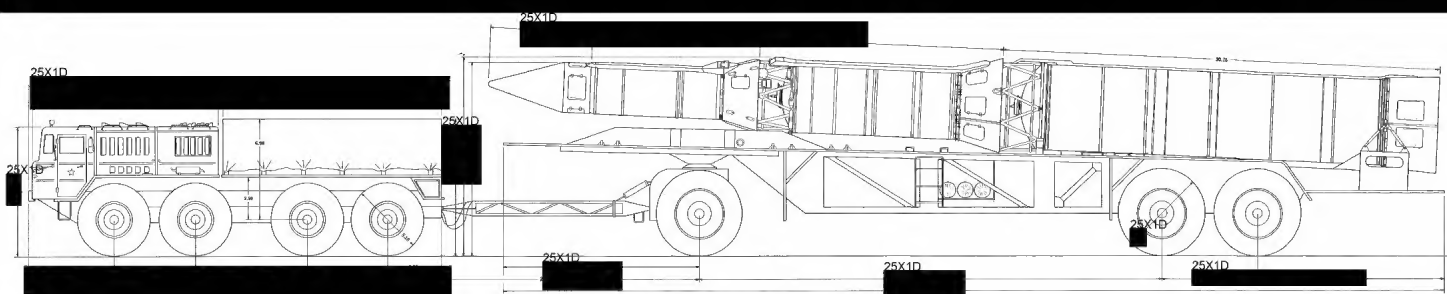
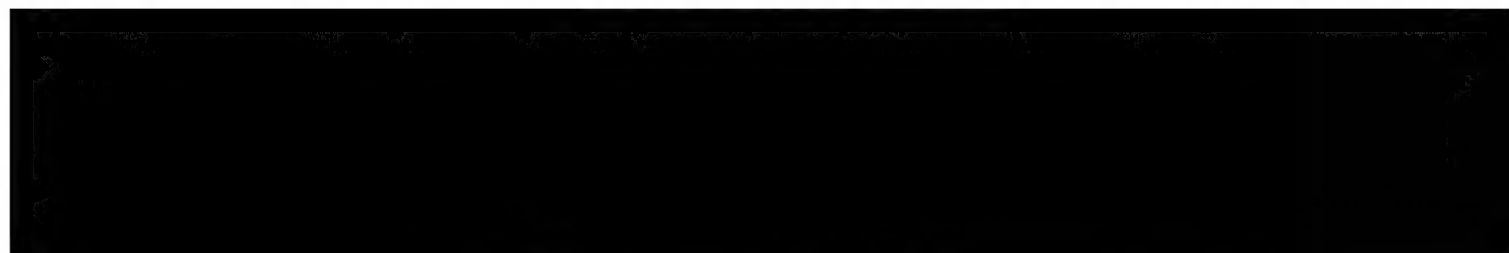
FIGURE 1. SAVAGE MISSILE ON PARADE, 9 MAY 1965.

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FIGURE 2. SIDE VIEWS OF SAVAGE MISSILE, TRANSPORTER, AND PRIME MOVER AND REAR VIEW OF MISSILE BOOSTER.

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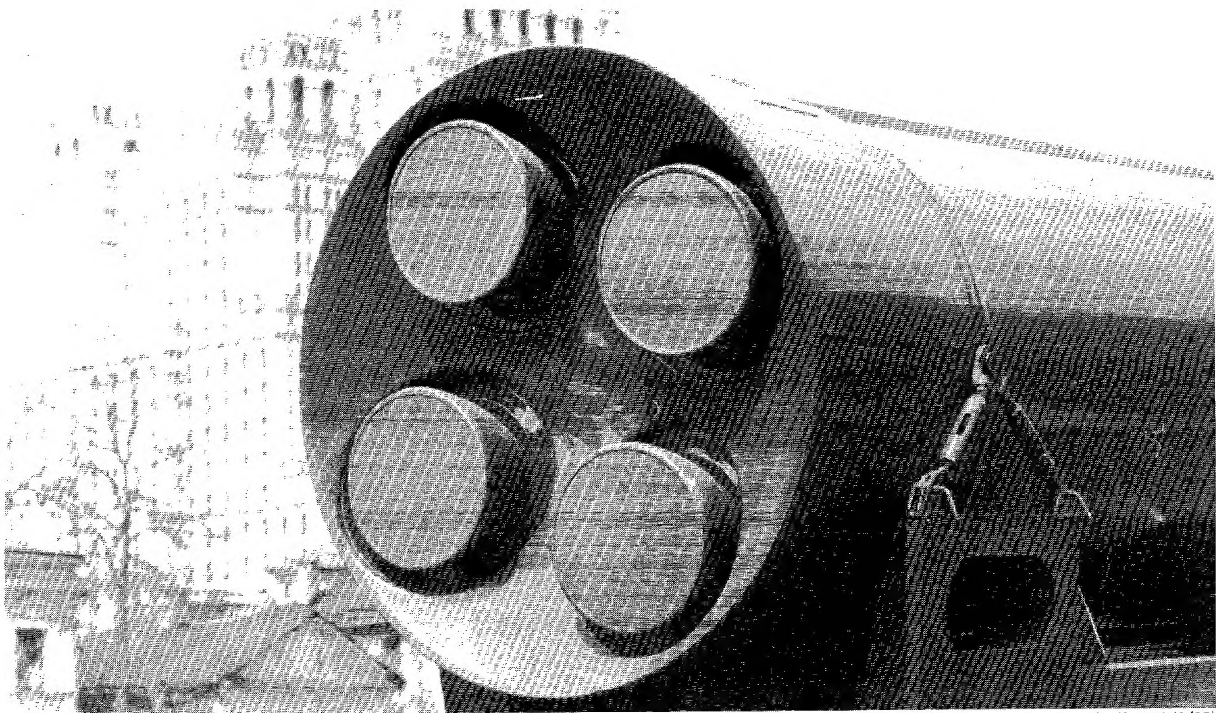


FIGURE 3. PRIME MOVER TOWING SAVAGE AND VIEW OF SAVAGE BOOSTER.

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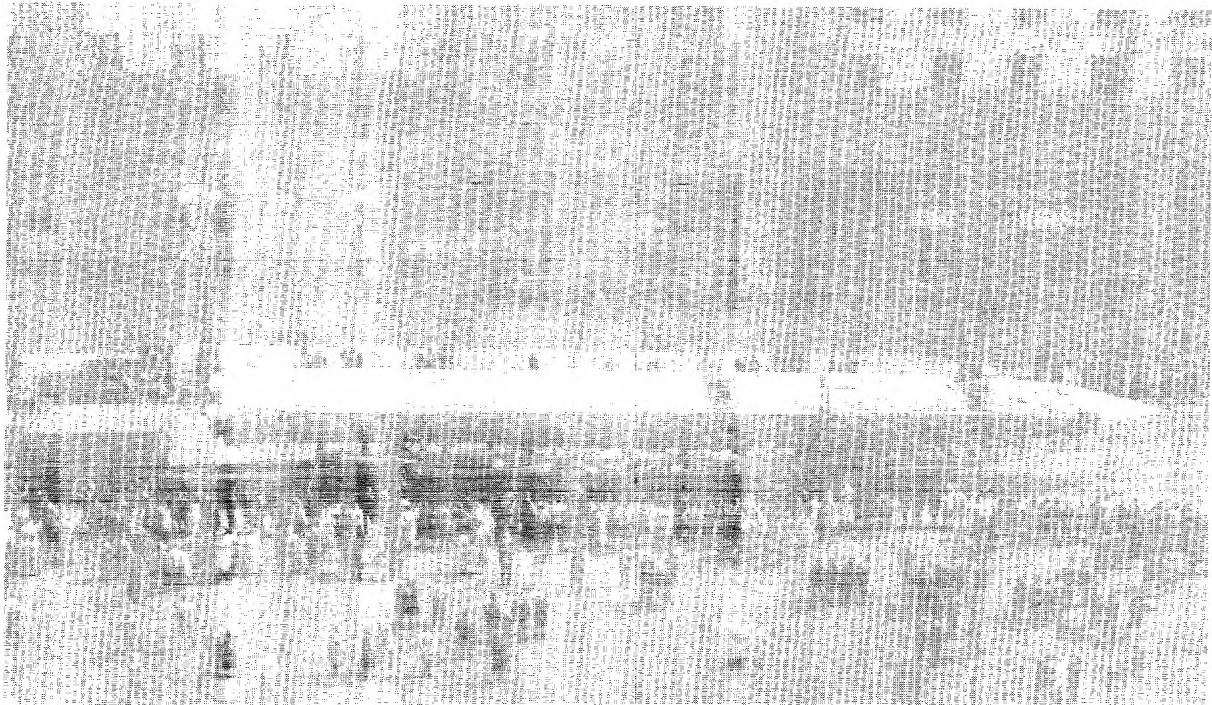


FIGURE 4. SCRAM MISSILE ON PARADE, 9 MAY 1965.

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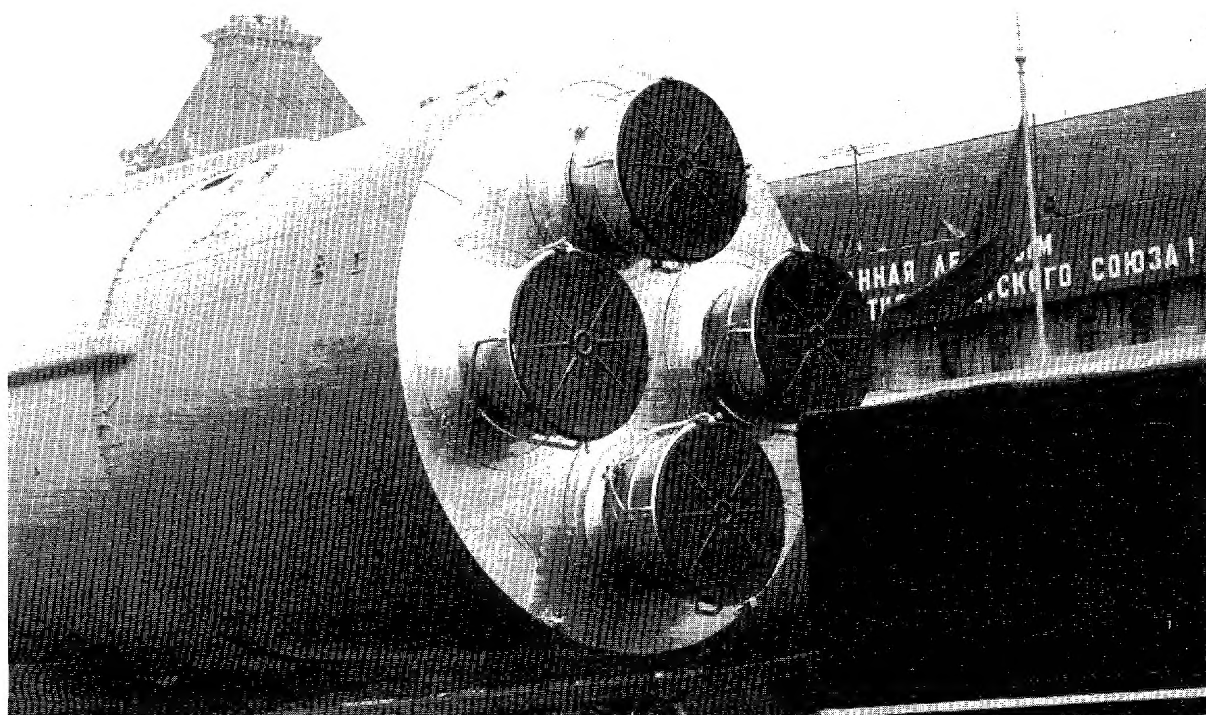
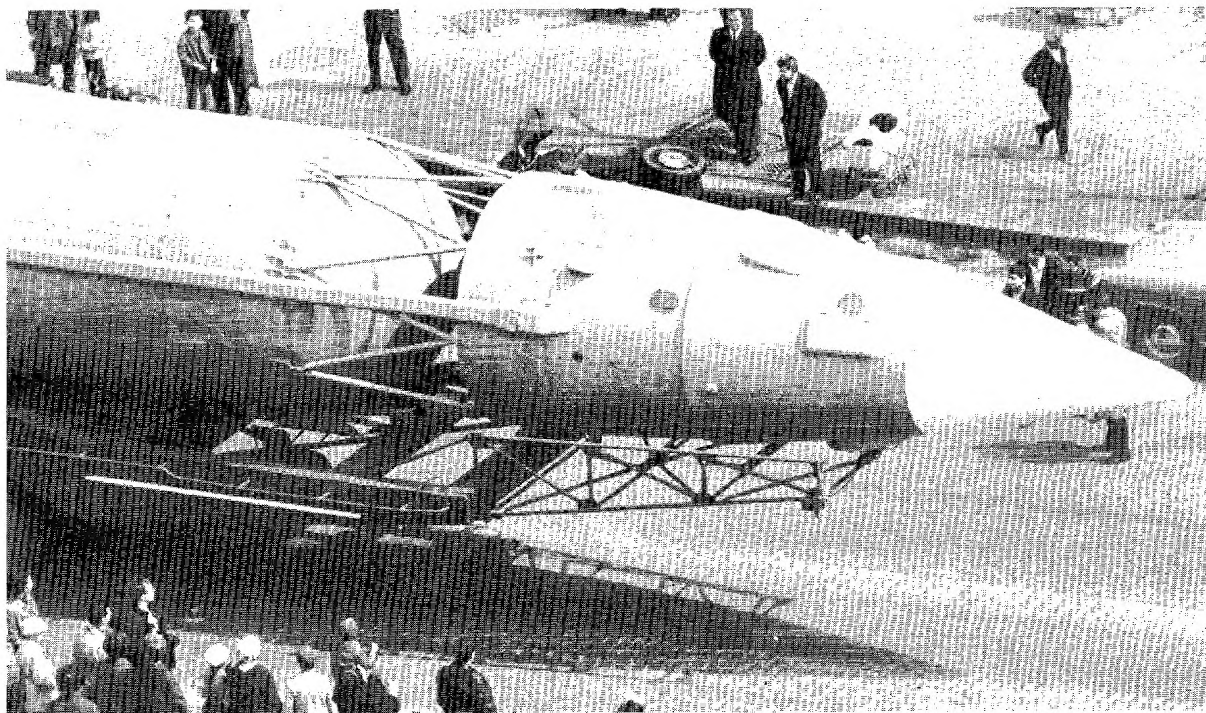


FIGURE 6. PARTIAL VIEWS OF SCRAG.

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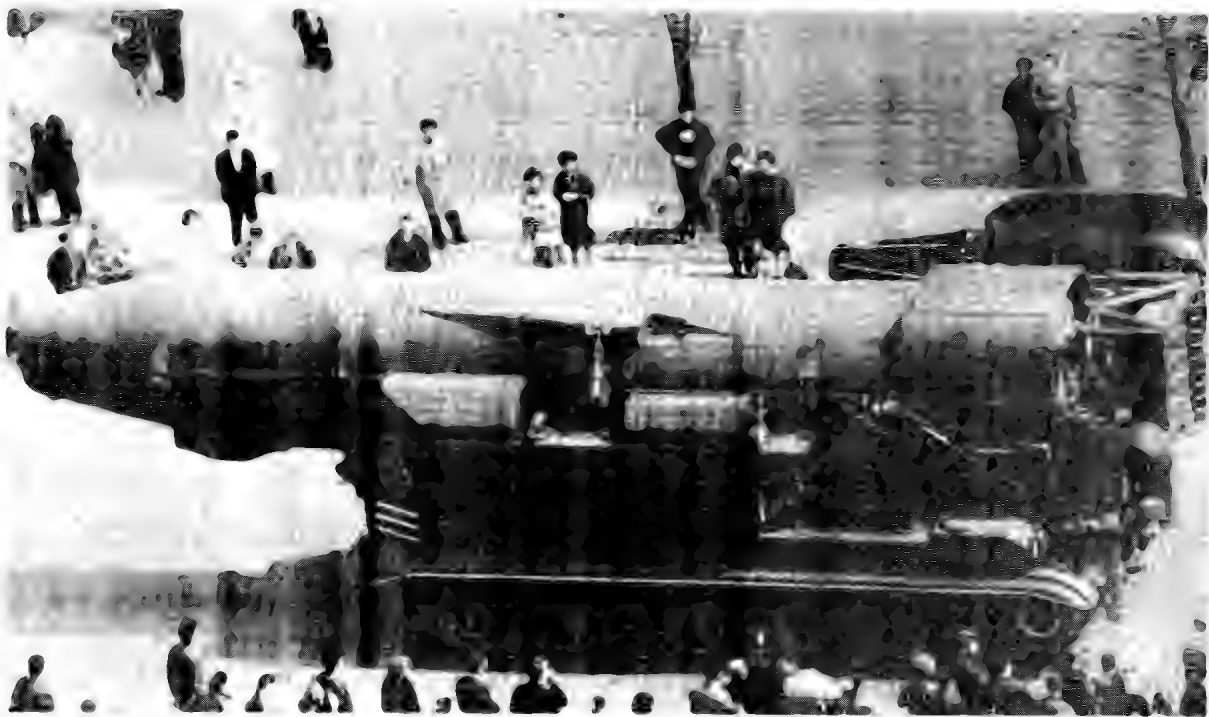


FIGURE 7. SCAMP MISSILE ON PARADE, 9 MAY 1965.

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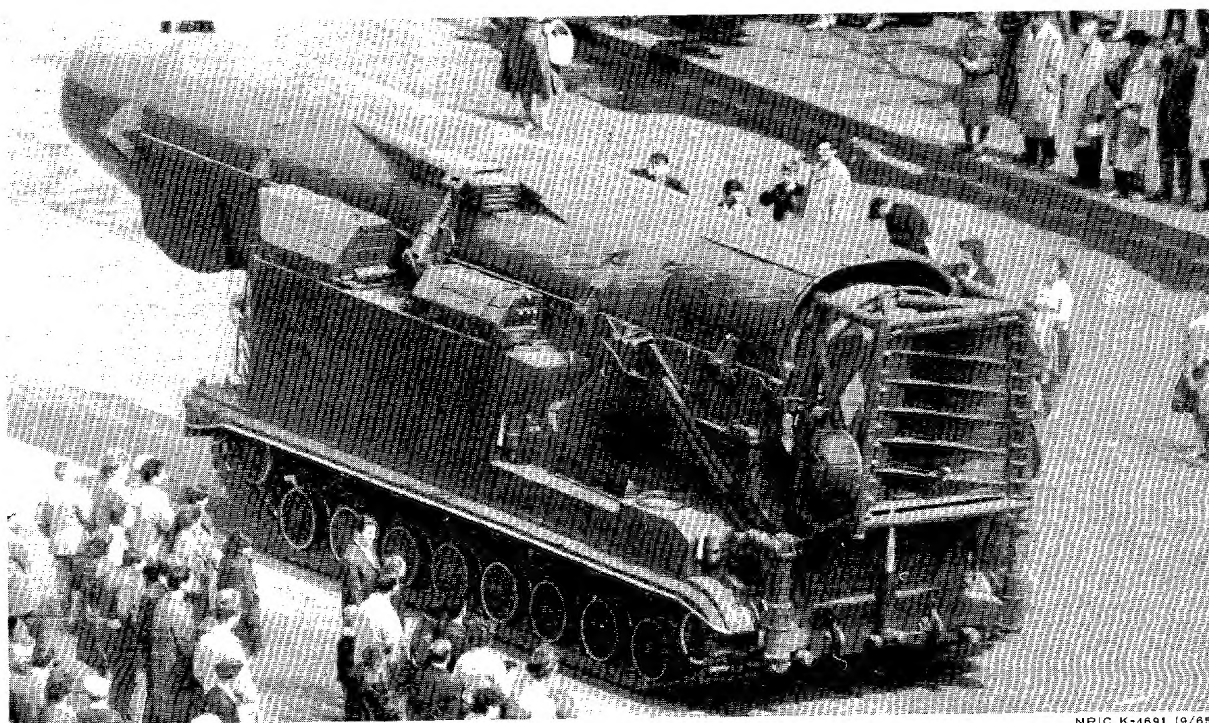
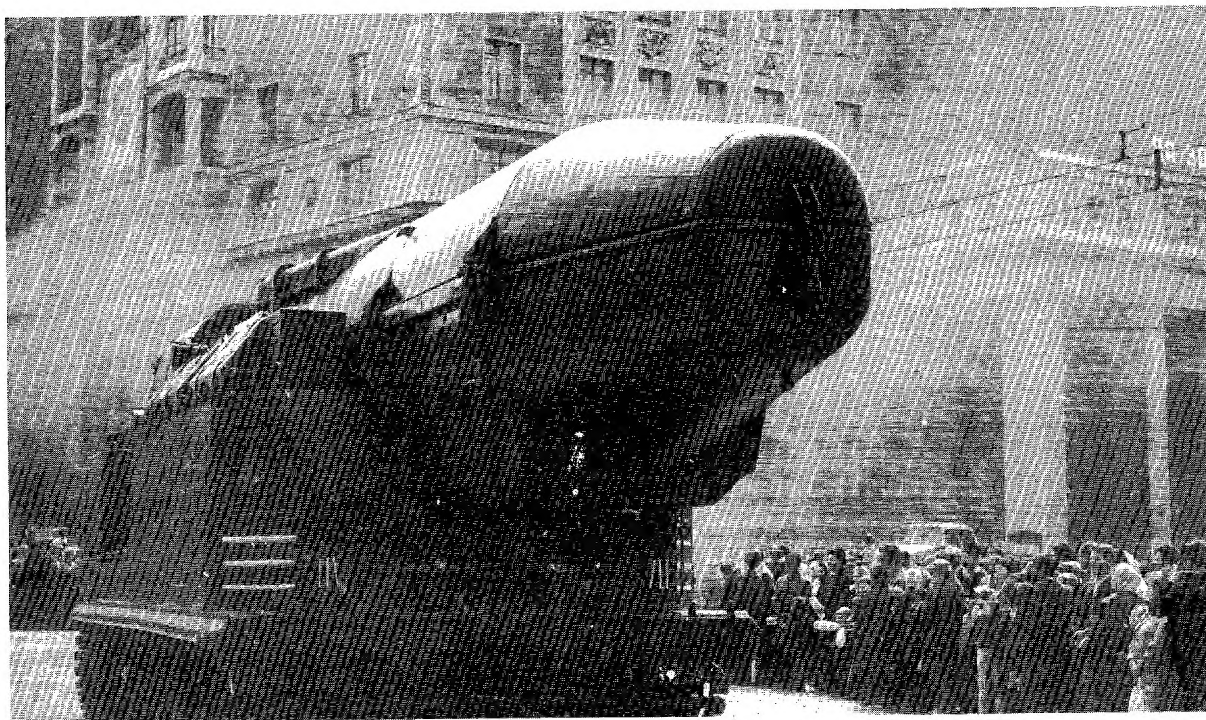
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FIGURE 9. OTHER VIEWS OF SCAMP ASSEMBLY.

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REFERENCES

PHOTOGRAPHY

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██████████ photography of 9 May 1965 (CONFIDENTIAL)

REQUIREMENT

CIA. C-SI5-82,589

NPIC PROJECT

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